

ABSTRACT OF THE DISCLOSURE

A fuel system for an energy conversion device includes a deoxygenator system with an electrochemical conversion system to remove oxygen from fuel through conversion of the oxygen to water. The electrochemical conversion system is located within a fuel flow. On the fuel side $\frac{1}{2}\text{O}_2 + 2\text{H}^+ + 2\text{e}^- \Rightarrow \text{H}_2\text{O}$ while on the reverse side the opposite reaction occurs. From the electrochemical conversion system the water is then collected and/or expelled from the system.

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